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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

1. Applicant's arguments filed on 9/16/2008 have been fully considered but they are not persuasive.

Regarding claims 1-12, Applicant argues, on pages 8-9 of the remarks, that Eun in view of Kotani and Stanwood do not disclose, teach, or suggest " (1) reception level obtaining means for obtaining a reception level of said set reception control slot when a link channel establishment request message is received in said set reception control slot, and (2) allocation instructing means for receiving the reception level from each of the base stations, determining the base station of the maximum reception level and transmitting the traffic channel allocation instruction to the determined base station."

The Examiner respectfully disagrees with Applicant's argument because the current claim language is broad enough to be met by Eun in view of Kotani and Stanwood.

Eun in view of Kotani and Stanwood clearly disclose

(1) reception level (see Eun, col.7, lines 11-13, the controller is connected to a maintenance terminal to check a status of the base station) obtaining means for obtaining a reception level (status of the base station) of said set reception control slot (see Eun, vol.4, lines 24-33, example, the physical (PH) layer is responsible for the segmentation of the transmission media into physical channels using TDMA operation on ten carriers between 188 and 1900 MHz with each carrier containing a TDMA structure defined as 24 timeslots per frame of 10 ms for the transmission of data

packets. The MAC layer is used to select the physical channels and then establishes or releases connections on those channels. It also multiplexes/demultiplexes control information in slot-sized data packets, col.7, lines 9-22) when a link channel establishment request message is received in said set reception control slot (see Eun, col.7, lines 9-22), and

(2) allocation instructing means for receiving the reception level (status) from each of the base stations (see Eun, col.7, lines 11-13, the controller is connected to a maintenance terminal to check a status of the base station), determining the base station of the maximum reception level (see Stanwood, [0074] the base stations preferably autonomously monitor and learn about the bandwidth requirements of their respective links using a session-based approach. The base stations preferably report results back to their associated cluster controller, [0088]-[0092]) and transmitting the traffic channel allocation instruction to the determined base station (see Stanwood, [0071] controller 162 provides these parameters to the base stations upon system installation. The cluster controller 162 is also preferably provided an initial parameter value based upon the number of expected customers and customer types in a given cluster coverage area).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 4, 7, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eun (U.S.Pat-6119015) in view of Kotani Gensai (JP-11-205849) and further in view of Stanwood et al. (U.S.Pub-20050243745).

Regarding claim 1, Eun teaches a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500), and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), wherein the slave base station includes:

frame synchronizing means for synchronizing a frame of said slave base station with a frame of the master base station (col.2, lines 50-67), and

each of the base stations (fig.1) includes:

reception level (the controller 250 is connected to a maintenance terminal to check a status of the base station) obtaining means for obtaining a reception level (status of the base stations) of said set reception control slot (col.7, lines 9-22) when a link channel establishment request message is received in said set reception control slot (col.7, lines 9-22), and

traffic channel allocating means for allocating a traffic channel (col.4, lines 39-42) with respect to a mobile station transmitting the link channel establishment request message to predetermined transmission (col.4, lines 33-47) and reception slots in the frame according to a traffic channel allocation instruction (fig.5, col.8, line 58 to col.9, line 32); and

the control device (PABX/ key system) includes:

allocation instructing means for receiving the reception level from each of the base stations (col.7, lines 9-22), determining the base station of the maximum reception level and transmitting the traffic channel allocation instruction to the determined base station (not specifically disclose).

Eun fails to specifically disclose slot setting means for setting, as a reception control slot, a predetermined reception slot in the frame of said slave base station matching in timing with a reception control slot in the frame of the master base station.

However, Kotani teaches slot setting means for setting (abstract), as a reception control slot, a predetermined reception slot in the frame of said slave base station matching in timing with a reception control slot in the frame of the master base station ([0038]-[0041]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determining the base station of the maximum reception level and transmitting the traffic channel allocation instruction to the determined base station.

However, Stanwood teaches determining the base station of the maximum reception level ([0054] lines 13-15) and transmitting the traffic channel allocation instruction to the determined base station ([0070]-[0071]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Stanwood to to Eun and Kotani to easy to monitor and update the communication link time slot allocations.

Regarding claim 4, Eun teaches a channel allocation method in a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500) and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), comprising the steps of:

causing the slave base station to synchronize a frame of said slave base station with a frame of the master base station (col.2, lines 50-67);

causing each of the base stations to obtain a reception level of the set reception control slot (col.7, lines 9-22) when the base station receives a link channel establishment request message in said set reception control slot (col.7, lines 9-22);

causing the control device to receive the reception level from each of the base stations (col.7, lines 9-22), determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station (not specifically disclose); and

causing the base station receiving the traffic channel(col.4, lines 39-42) allocation instruction to allocate a traffic channel with respect to a mobile station transmitting the link channel establishment request message to the predetermined transmission (col.4, lines 33-47) and reception slots in the frame (fig.5, col.8, line 58 to col.9, line 32).

Eun fails to specifically disclose causing the slave base station to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot.

However, Kotani teaches causing the slave base station (abstract) to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot ([0038]-[0041]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station.

However, Stanwood teaches determine the base station of the maximum reception level ([0054] lines 13-15) and transmit a traffic channel allocation instruction to the determined base station ([0070]-[0071]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Stanwood to to Eun and Kotani to easy to monitor and update the communication link time slot allocations.

Regarding claim 7, Eun teaches a computer readable medium embedding a channel allocation program in a radio base station system formed of one master base station (master base stations 200 and 300), a plurality of slave base stations (slave base stations 400 and 500) and a control device (PABX/key system) controlling the master base station and the slave base stations (fig.1), the channel allocation program, when executed by a computer, causing the computer to execute the steps of:

causing the slave base station to synchronize a frame of said slave base station with a frame of the master base station (col.2, lines 50-67);

causing each of the base stations to obtain a reception level of the set reception control slot (col.7, lines 9-22) when the base station receives a link channel establishment request message in said set reception control slot (col.7, lines 9-22);

causing the control device to receive the reception level from each of the base stations (col.7, lines 9-22), determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station (not specifically disclose); and

causing the base station receiving the traffic channel(col.4, lines 39-42) allocation instruction to allocate a traffic channel with respect to a mobile station transmitting the link channel establishment request message to the predetermined transmission (col.4, lines 33-47) and reception slots in the frame (fig.5, col.8, line 58 to col.9, line 32).

Eun fails to specifically disclose causing the slave base station to set a predetermined reception slot in the frame of said slave base station matching in timing

with the reception control slot in the frame of the master base station as the reception control slot.

However, Kotani teaches causing the slave base station (abstract) to set a predetermined reception slot in the frame of said slave base station matching in timing with the reception control slot in the frame of the master base station as the reception control slot ([0038]-[0041]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Kotani to Eun to be calculated easily and suitable transmit timing can be set up.

Eun and Kotani fail to specifically disclose determine the base station of the maximum reception level and transmit a traffic channel allocation instruction to the determined base station.

However, Stanwood teaches determine the base station of the maximum reception level ([0054] lines 13-15) and transmit a traffic channel allocation instruction to the determined base station ([0070]-[0071]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Stanwood to Eun and Kotani to easy to monitor and update the communication link time slot allocations.

Regarding claim 10, Eun, Kotani, and Stanwood further teach the radio base station system according to claim 1, wherein said predetermined conditions include a

minimum reception slot interference level (see Kotani, [0003] Drawing 8 (a) shows the transmission frame which the master base station 1 transmits, and the reception frame which the slave base stations 2 receive, and the slave base stations 2 receive drawing 8 (b) by the slot R1, It is the example for which send data was embedded into the slot T1, it transmitted to it, and the master base station 1 received this by the slot R1. and the interference between contiguity slots does not take place in the master base station 1).

Regarding claim 11 is rejected with the same reasons set forth in claim 10.

Regarding claim 12 is rejected with the same reasons set forth in claim 10.

4. Claims 2-3, 5-6, and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eun (U.S.Pat-6119015) in view of Kotani Gensai (JP-11-205849), in view of Stanwood et al. (U.S.Pub-20050243745), and further in view of Yonekura et al. (JP-2000-253460).

Regarding claim 2, Eun, Kotani, and Stanwood further teach the radio base station system according to claim 1,

Eun and Kotani fail to specifically disclose wherein said traffic channel allocation means of the slave base station allocates the traffic channel to the reception slot satisfying predetermined conditions when said reception slot satisfying said predetermined conditions exists other than said predetermined reception slot, and allocates the traffic channel to said predetermined reception slot when the reception slot satisfying the predetermined conditions does not exist.

However, Yonekura teaches wherein said traffic channel allocation means of the slave base station allocates the traffic channel to the reception slot satisfying predetermined conditions when said reception slot satisfying said predetermined conditions exists other than said predetermined reception slot (abstract, [0003] and [0008]), and allocates the traffic channel to said predetermined reception slot when the reception slot satisfying the predetermined conditions does not exist (abstract, [0003] and [0008]).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Yonekura to Eun, Kotani, and Stanwood to make it possible to connect an emergency call even when there is no free calling slot on a radio line in a mobile object communication system.

Regarding claim 3, Eun, Kotani, Stanwood, and Yonekura further teach the radio base station system according to claim 2, wherein said slave base station further includes:

traffic channel switching means for switching the slot for allocation of the traffic channel to the reception slot satisfying said predetermined conditions (see Yonekura, [0079]-[0083]) when the reception slot satisfying said predetermined conditions occurs among the reception slots other than said predetermined reception slot after the traffic channel is allocated to said predetermined reception channel (see Yonekura, [0079]-[0083]).

Regarding claim 5 is rejected with the same reasons set forth in claim 2.

Regarding claim 6 is rejected with the same reasons set forth in claim 3.

Regarding claim 8 is rejected with the same reasons set forth in claim 2.

Regarding claim 9 is rejected with the same reasons set forth in claim 3.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI M. NGUYEN whose telephone number is (571)272-7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent P. Harper can be reached on 571.272.7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VINCENT P. HARPER/
Supervisory Patent Examiner, Art Unit 2617

/Khai M Nguyen/
Examiner, Art Unit 2617

12/15/2008